# Conversion of DN in 'SLOP' files into degrees off horizontal of the surface tangent
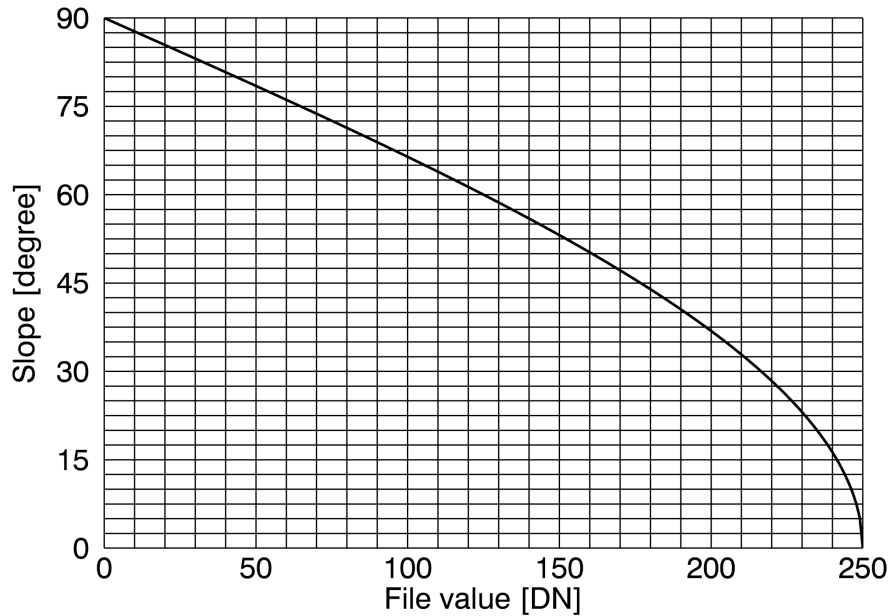
slope[degrees] = float(acos(DN/250.0)*180.0/!PI)



Conversion table:

| DN | Slope [°] | Slope [%] | DN | Slope [°] | Slope [%] | DN | Slope [°] | Slope [%] | dn | Slope [°] | Slope [%] | DN | Slope [°] | Slope [%] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 90.0 | inf | 50 | 78.5 | 490 | 100 | 66.4 | 229 | 150 | 53.1 | 133 | 200 | 36.9 | 75 |
| 5 | 88.9 | 4999 | 55 | 77.3 | 443 | 105 | 65.2 | 216 | 155 | 51.7 | 127 | 205 | 34.9 | 70 |
| 10 | 87.7 | 2498 | 60 | 76.1 | 404 | 110 | 63.9 | 204 | 160 | 50.2 | 120 | 210 | 32.9 | 65 |
| 15 | 86.6 | 1664 | 65 | 74.9 | 371 | 115 | 62.6 | 193 | 165 | 48.7 | 114 | 215 | 30.7 | 59 |
| 20 | 85.4 | 1246 | 70 | 73.7 | 343 | 120 | 61.3 | 183 | 170 | 47.2 | 108 | 220 | 28.4 | 54 |
| 25 | 84.3 | 995 | 75 | 72.5 | 318 | 125 | 60.0 | 173 | 175 | 45.6 | 102 | 225 | 25.8 | 48 |
| 30 | 83.1 | 827 | 80 | 71.3 | 296 | 130 | 58.7 | 164 | 180 | 43.9 | 96 | 230 | 23.1 | 43 |
| 35 | 82.0 | 707 | 85 | 70.1 | 277 | 135 | 57.3 | 156 | 185 | 42.3 | 91 | 235 | 19.9 | 36 |
| 40 | 80.8 | 617 | 90 | 68.9 | 259 | 140 | 55.9 | 148 | 190 | 40.5 | 86 | 240 | 16.3 | 29 |
| 45 | 79.6 | 546 | 95 | 67.7 | 243 | 145 | 54.5 | 140 | 195 | 38.7 | 80 | 245 | 11.5 | 20 |
| 50 | 78.5 | 490 | 100 | 66.4 | 229 | 150 | 53.1 | 133 | 200 | 36.9 | 75 | 250 | 0.0 | 0 |